

The Impact of Coronavirus Pandemic on Developed Countries' Economy

Abstract

The purpose of this research is to examine the negative effects of the coronavirus epidemic on the economies of developed countries. It is aimed to explain the effect of coronavirus on the economies of countries by visualizing the gross domestic product deficit of the United States, China, Germany, United Kingdom and Japan.

Keywords: *Economy, visualization, Coronavirus, Gross Domestic Product*

Introduction

The coronavirus, which emerged in the city of Wuhan, China in the last period of 2019, has taken the whole world under its influence in a short time. The coronavirus quickly showed its effect on the economy, education, production, social life and many more. The coronavirus, which was declared a global epidemic with its spread all over the world, has caused all countries to take certain measures. Perhaps the most important of the measures taken by the countries is the curfew. With the curfew, the working rates and production rates in the countries experienced a rapid decline and this situation had a negative impact on the economies of the countries.

With the coronavirus epidemic, the economy has been worsened with each passing month, as the brands cannot provide enough labor and raw materials to the countries they are affiliated with. The negative impact of the economy causes the gross domestic product deficit of countries to increase in the long-term.

Method

In this research, a dataset containing 50419 data was used. These data, which cover the last day of 2019 and the end of October 2020, have been collected in new tables for 5 developed countries, including the United Kingdom, Japan, China, Germany and the United States. These 5 new tables, which were created to improve data quality, were used to visualize and create country graphs.

Results

United Kingdom's Economy with Pandemic

This chart shows the long-term change in the gross domestic product of the United Kingdom with the coronavirus pandemic.

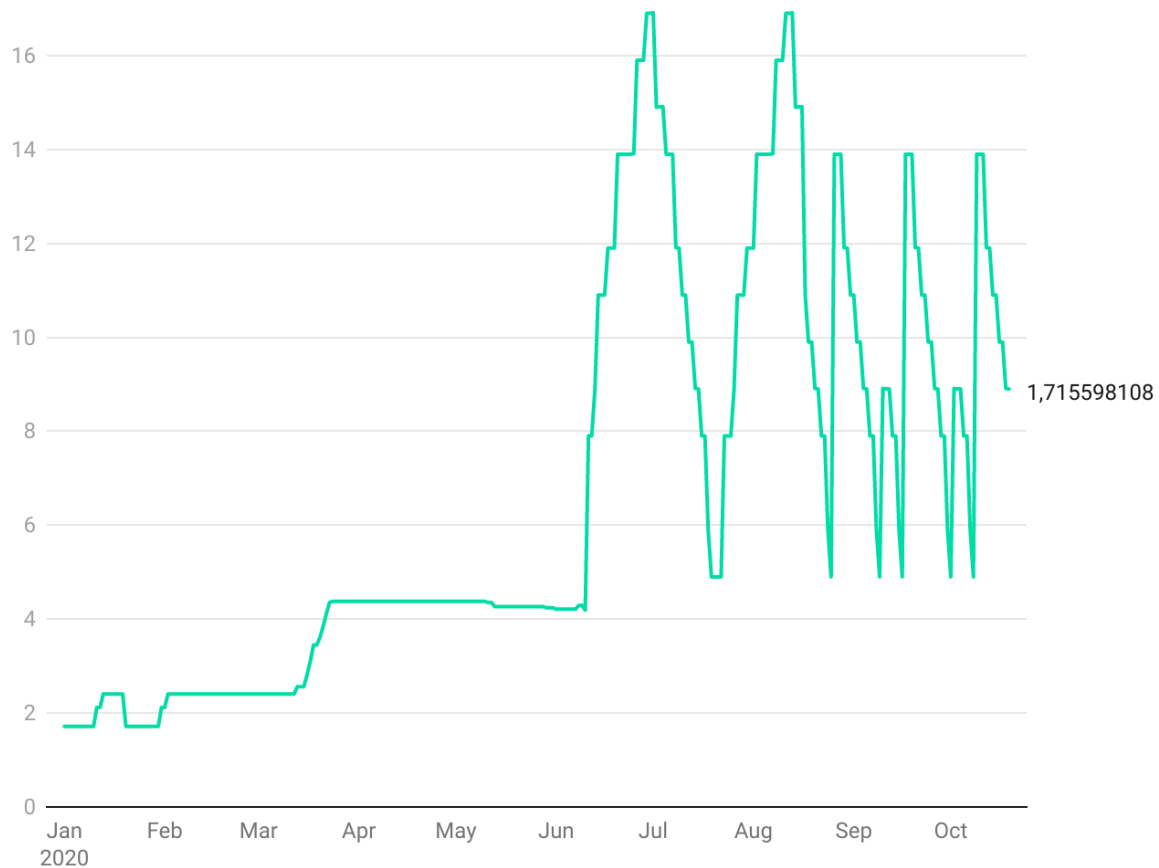


Chart: Alperen • Created with Datawrapper

When we look at the graph of the United Kingdom, the gross domestic product deficit increased and decreased thanks to the serious changes in the production frequency after June. The UK's gross domestic product deficit raised to -16.58606% with the coronavirus effect.

Japan's Economy with Pandemic

This chart shows the long-term change in the gross domestic product of the Japan with coronavirus pandemic.

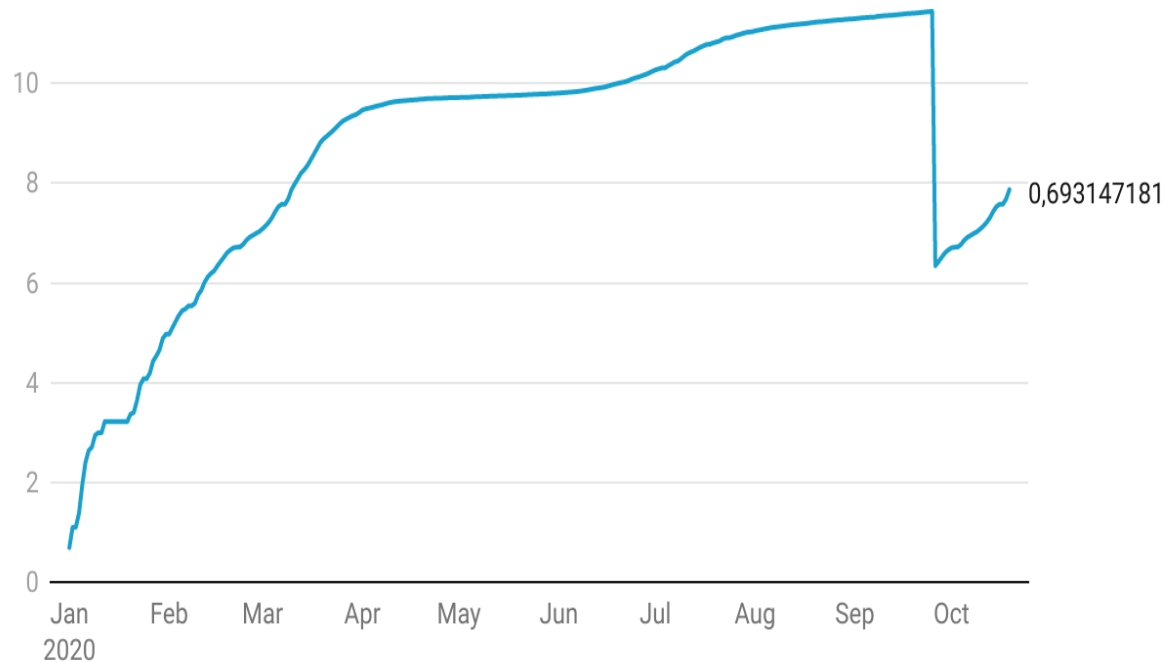


Chart: Alperen • Created with Datawrapper

Since Japan is the world's technology giant and production has decreased continuously throughout the year, the gross domestic product gap has remained at an average level. While other countries' gross domestic deficit is -15%, Japan's gross domestic product gap is -11.46943% thanks to its continuous production.

China's Economy with Pandemic

This chart shows the long-term change in the gross domestic product of the China with coronavirus pandemic.

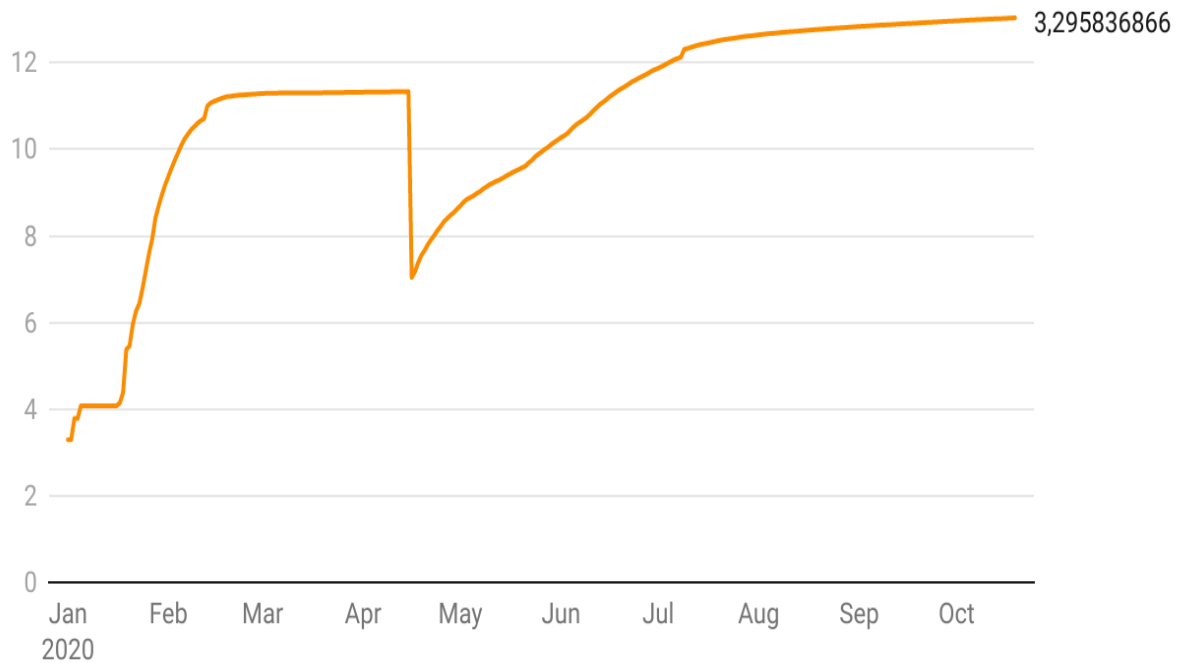
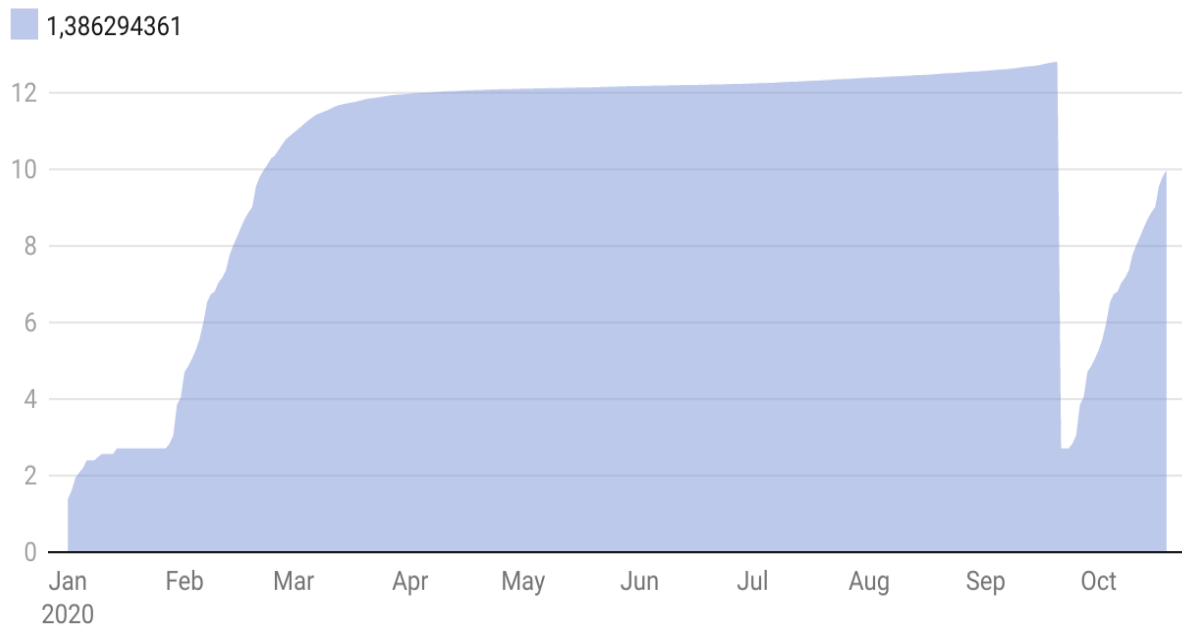


Chart: Alperen • Created with Datawrapper

Since the coronavirus epidemic first started in China, the effective measures taken by the Chinese government and the production rotation have kept the gross domestic product at similar levels. China's gross domestic product gap was between 0 and 1 before the coronavirus started. With the effect of the coronavirus, this rate remained between 7-13% for a period of 10 months.

Germany's Economy with Pandemic

This chart shows the long-term change in the gross domestic product of the Germany with coronavirus pandemic.



Source: Alperen • Created with Datawrapper

The German government has taken serious measures due to the increase in the number of cases. These measures had a direct negative impact on production. Despite this, thanks to its strong industry and production, the economy has not been affected much in the long run. Although these effects caused the gross domestic product deficit to remain high for a while, Germany continued its production with the effect of the normalization period with the necessary precautions and the discovery of the vaccine and succeeded in reducing the gross domestic product deficit.

United States's economy with Pandemic

This chart shows the long-term change in the gross domestic product of the United States with the coronavirus pandemic.

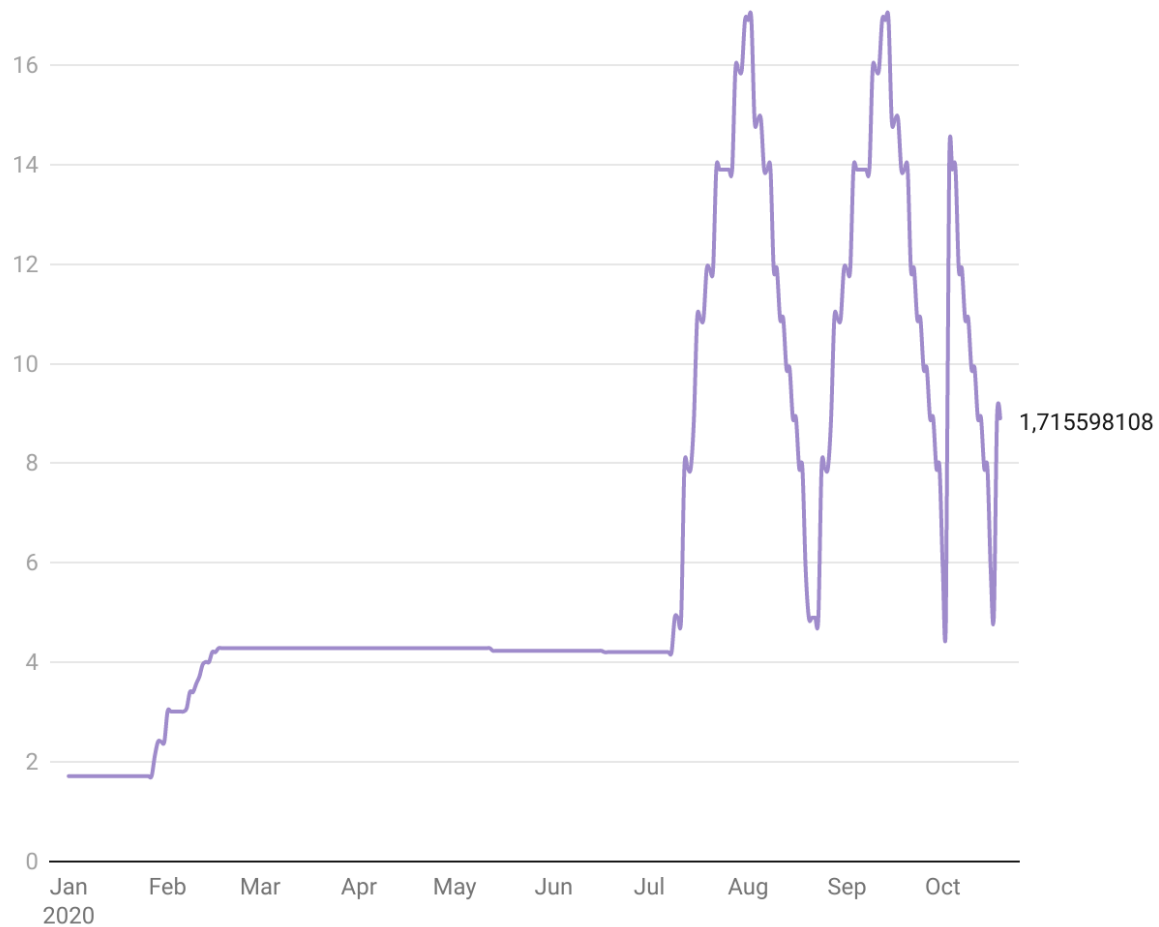


Chart: Alperen • Created with Datawrapper

When we look at the graph of the United States, the serious increase in the number of cases has negatively affected social life and business life and caused a decrease in the working population. The decrease in the rate of working population affected production negatively. After July, we see serious increases in summer due to production and other factors. Gross domestic product deficit decreased to -17.86748%.

Conclusion

The coronavirus epidemic has adversely affected countries in many different areas. Economics is only one of these areas. The measures taken, the cessation and reduction of production have adversely affected the economies of the countries.

References

<https://data.mendeley.com/datasets/b2wvnbnpj9/1>

<https://dergipark.org.tr/en/download/article-file/1321929>

International Journal of Public Finance. DergiPark (2020). An Assessment of the Economic Impacts of Covid-19 and the Economic Response to Pandemic. (Vol.5 No.2) pp. 211-236.